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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/053,508	11/10/2001	John C. Tsai	60154.302001 3381			
32112	7590 06/30/2004	EXAMINER				
INTELLECTUAL PROPERTY LAW OFFICE 1901 S. BASCOM AVENUE, SUITE 660 CAMPBELL, CA 95008			BROWN,	BROWN, KHALED		
			ART UNIT	PAPER NUMBER		
			2877			

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

- *1		Applicati n	N I	Applicant(s)	· · ·		
Office Action Summary							
		10/053,508		TSAI, JOHN C.	<u>UK</u>		
		Examiner		Art Unit			
	The MAILING DATE of this communi	Khaled Bro		2877	droce		
Period fo		cadon appears on the c	over sneet with the c	nespondence ad	11 C33		
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months a end patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event unication. D) days, a reply within the statuto tutory period will apply and will a will, by statute, cause the applica	, however, may a reply be tim ry minimum of thirty (30) days expire SIX (6) MONTHS from the tion to become ABANDONET	ely filed will be considered timely the mailing date of this co 0 (35 U.S.C. § 133).	mmunication.		
Status							
1)[]	Responsive to communication(s) file	d on <u>10 November</u> 200	<u>)1</u> .				
,	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	<i>,</i> —						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers						
10)⊠	The specification is objected to by the The drawing(s) filed on 10 November Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	r 2001 is/are: a) acc ction to the drawing(s) be the correction is required	held in abeyance. See I if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	R 1.121(d).		
Priority (ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 09/434,100. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	ıt(s)						
1) Notice 2) Notice 3) Inform	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date	PTO/SB/08)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	ite)-152)		

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, a detector and a receiver including photo diodes of claim 9 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

Claim 9 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The limitations of both a detector and said receivers include photo diodes has not been disclosed in the specification.

As best the examiner is able to ascertain the meaning of the claims the following rejections are made:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,3,5 and 11-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Osanai (US 5610686).

Re clms 1,3,5,11,12,13,14,17-20: Osanai discloses a measuring apparatus and method, comprising: using a light source for producing light beams (31); and two optical channels (31 to 33a and 31 to 33c) each including: using an interferometer comprising a reflective target (32a); a beam splitter (33a, 33c); a detector (34a, 34c); and using a receiver (Col 5 line 24).

Re clms 10,15,16: position data for external system (Col 5 line 24)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2,6,7,9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osanai (US 5610686) in view of Hercher (US 5812266).

Re clm 2: Osanai discloses the claimed invention as noted above including a laser light source (Osanai 31). However Osanai does not disclose that the laser light source is a

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diode. Hercher discloses that a laser light source in an interferometer should be a diode laser because it is insensitive to reflectivity (Hercher Col 8 lines 11-12). Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a diode laser as the laser source in the apparatus of Osanai because it would increase insensitivity to reflectivity as suggested by Hercher.

Re clm 6: retroreflectors (Hercher 52)

Re clm 7: position sensitive quad-cell detectors (Hercher 61)

Re clm 9: photo diodes (Hercher Col 7 lines 11-12)

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Osanai (US 5610686) in view of Maris et al (US 6400449).

Re clm 4: Osanai discloses the claimed invention as noted above including a single laser light source (Osanai 31). However Osanai does not disclose two light sources. Maris et al teaches that a single light source (Maris et al Fig 1b) can be replaced by two light sources (Maris et al Fig 1c) because it increases contrast. Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to replace the single light source of Osanai with two light sources because it would increase contrast as taught by Maris et al.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Linker et al 5496999, Erickson 3601490, Ohzeki 5925956, Sogard 5784166 and Tsai 6316779.

Note: No IDS has been filed in this application.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khaled Brown whose telephone number is 571-272-2411. The examiner can normally be reached on M-F 8:30am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ΚB

June 25, 2004

Frank Font

Supervisory Patent Examiner

Frank & Fort

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